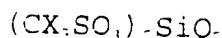
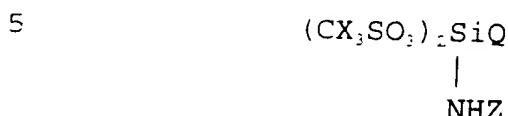


I CLAIM:

1. A compound having the formula I



or the formula II



in which X is H or F, each Q in formula (I) may be the same or a different alkyl or aryl hydrocarbyl group with the proviso that when X is F in formulæ (I), Q is not methyl, and Z is an alkyl or aryl hydrocarbyl group which may be the same or different from Q

2. A claim 1 compound in which each Q is an alkyl group having one to eight carbon atoms.

15           3. A claim 1 compound in which X is H and Z is a  
tertiary butyl group.

4. The compound  $(CH_3SO_2)_2Si(CH_3)_2O \cdot 5HCl$

### 5. The compound $(CE\cdot SO_4)_2 Si(CH_3)_4$

NH (*t*-butyl)

7. A method for preparing a silylated or N-silylated mono- or bis- cyclopentadienyl or indenyl compound which comprises reacting a lithiated mono or bis cyclopentadienyl or indenyl compound with a claim 1 compound of Formula I  
5 or Formula II.

8. A method for preparing an N-silylated mono- or bis- cyclopentadienyl or indenyl compound which comprises reacting a lithiated mono- or bis- cyclopentadienyl or indenyl compound with a claim 6 or a claim 7 compound.

10 9. A method which comprises:

(i) reacting a compound including a -CH group with a compound having the formula RM in which R is any hydrocarbyl group and M is an alkali metal in a non-interfering solvent wherein a reaction mixture containing a compound having

15 a -CM group in said solvent is produced;

(ii) reacting a metallocene ligand with said compound having the formula -CM produced in step (i)  
wherein a reaction mixture containing an alkali metalide of said metallocene ligand is produced; and

(iii) reacting said alkali metalide of said metallocene ligand with a compound of Formula (I) or Formula (II).

10 The claim 9 method wherein said step (i) compound RM is an alkyl lithium compound.

5 11. The claim 9 or claim 10 method wherein said step (iii) is performed by adding said formula (I) or formula (II) compound to said step (ii) reaction mixture.

12. The claim 9 or claim 10 method further comprising a step (ii)(a), wherein said alkali metalide is separated  
10 from said step (ii) reaction mixture prior to step (iii).

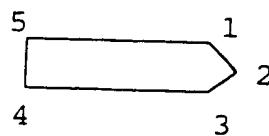
13. The claim 9 or claim 10 method wherein said step (ii) metallocene ligand is

(i) a monocyclopentadienyl ligand having the formulae  
 $C_xH_yR_z$ , wherein:

15  $X = 0-5$

$Y = 0-5$

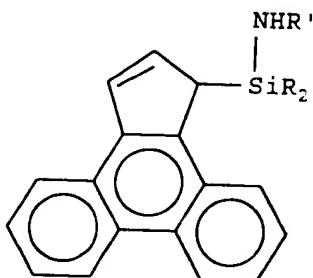
$R =$  any aryl or aromatic group and H or R can occupy any of the positions 1 to 5 of the formula



or

(ii) a silylated monocyclopentadienyl ligand having the formulae  $(R_2Si)_zC_5H_xR_y$ , wherein  $C_5H_xR_y$  is as defined in definition 5,  $Z=1-5$  and  $R$  and  $R'$  are identical or different alkyl or aromatic groups.

14. A compound having the formula



in which  $R$  and  $R'$  are the same or different alkyl or aromatic groups.

15. A claim 14 compound in which  $R'$  is a *t*-butyl group.